

AERIAL TOWER OPERATIONS



Montgomery County Fire and Rescue

Driver Certification Program

AERIAL TOWER OPERATIONS

2007 Pierce Aerial Tower:

95' 3 section aerial tower with full ladder and a 1000 lb tip load

Pre piped waterway with 1000 gpm rating at any angle and any extension and unlimited nozzle position



Placing Aerial in Service

Transmission in Neutral

Apply parking brake

Apply auxiliary brake (push and hold)

Activate Aerial Master switch and Aerial PTO

Aerial master switch will illuminate designating aerial ready.

Aerial Master
Switch



Aerial PTO
Switch



Placing Aerial in Service

Exit the cab and place both wheel chocks down !

**Initiate outrigger stabilization:
begin with the low side, extend fully
and then lower, onto the outrigger
pad grounding the stabilizer.**

**Bring level indicator to the green
zone. Led lights will activate when
outrigger fully deployed and
grounded.**



Placing Aerial in Service

Place handles to
inside



Pins should be
centered



Placing Aerial in Service

Full operations can only be obtained when both level indicators are in the green area. Lower the outriggers to take the bulge out of the tires.

Maximum ground contact will lead to successful operations.

PIN ALL STABILIZERS!!



Placing Aerial in Service

STABILIZERS DEPLOYED FULLY:

GREEN = Full Operating
capacities 500lb
YELLOW = Only **HALF**
or 250lb
RED = **NONE !!**



THIS MEANS BOTH LEVEL INDICATORS MUST BE IN THE GREEN



Placing Aerial in Service

Short-Jacking: when the Stabilizers are **NOT fully deployed.**

When only absolutely necessary, shortjack the side opposite your working side. The ladder will not rotate to the shortjacked side of the truck.



Aerial Control



Located in Aerial Bucket



Stabilizer Control



Located Drivers Side Rear



Stabilizer Control Box

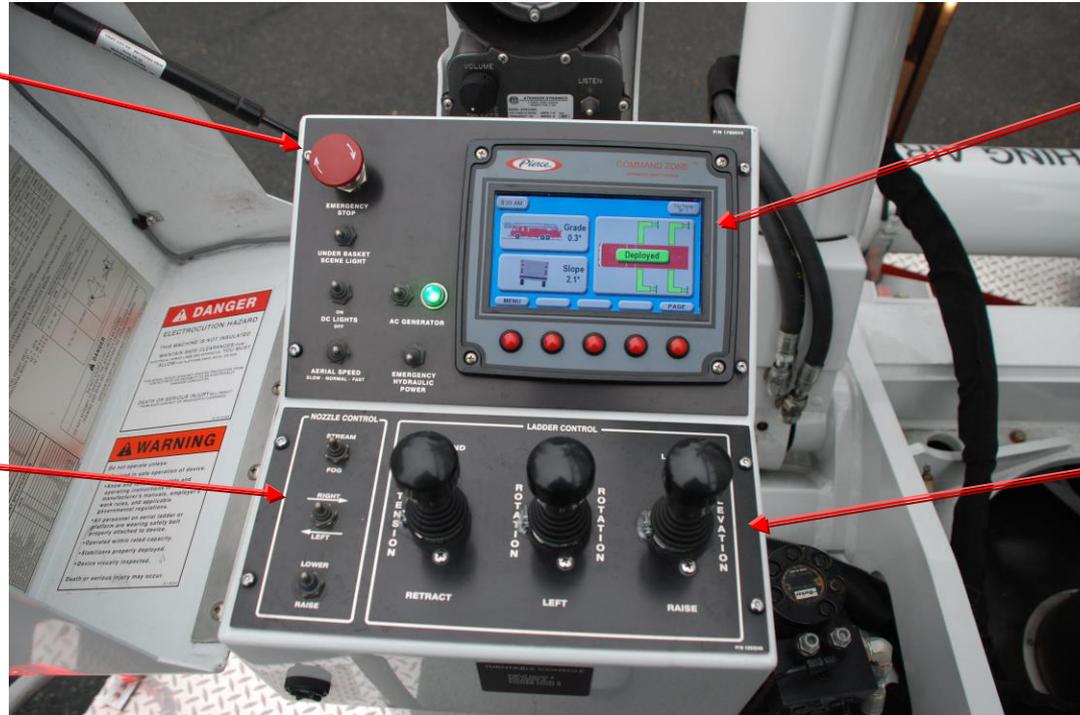




Command Zone for Aerial Operations

Emergency
Stop Button

Command
Screen



Nozzle
Controls

Ladder
Controls



Emergency Stop Button



Located at the rear of the vehicle, on the pedestal and in the basket. Once depressed aerial operations will stop. To proceed with operations you must reset the button that was activated.

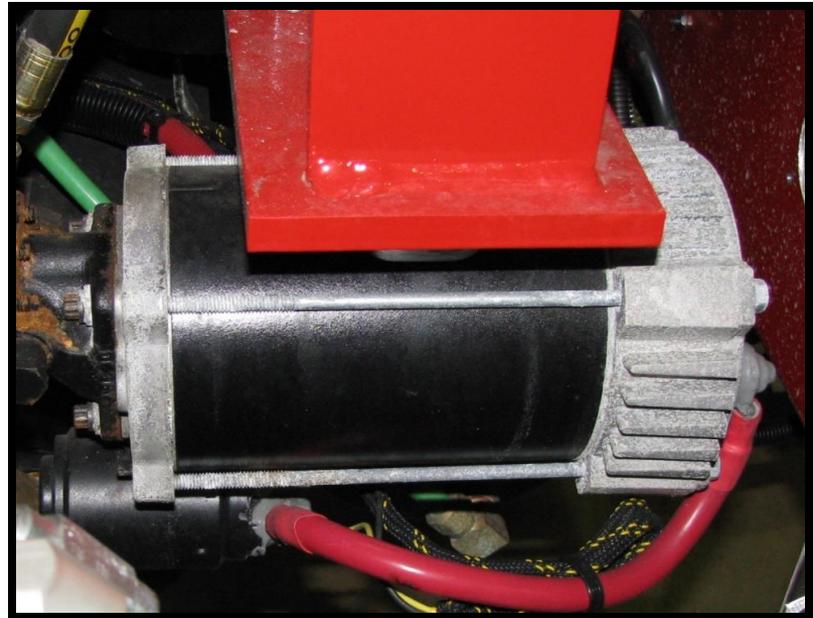


EMERGENCY OVERRIDES

Whenever overrides are used, all safety interlocks become inactive.

**Hydraulic Pump Failure -
can be overcome with the
use of the EPU
(Emergency Pump Unit)**

**The EPU can be activated
at the pedestal or at the
outrigger switch console.**



EMERGENCY OVERRIDE

Remember, overrides are only used to return the ladder to bed. Never to put the ladder into service!



EMERGENCY OVERRIDE



Manual Control Valves located Officers Side at rear of unit.



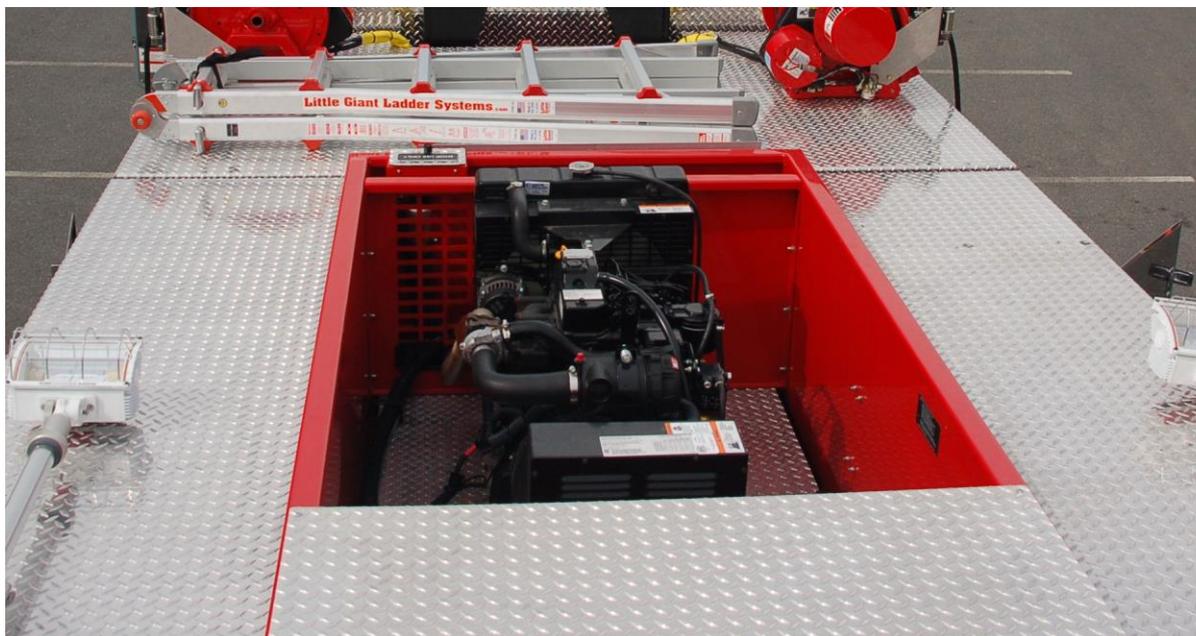
AERIAL EMERGENCY OVERRIDES



Aerial Override located on turntable.



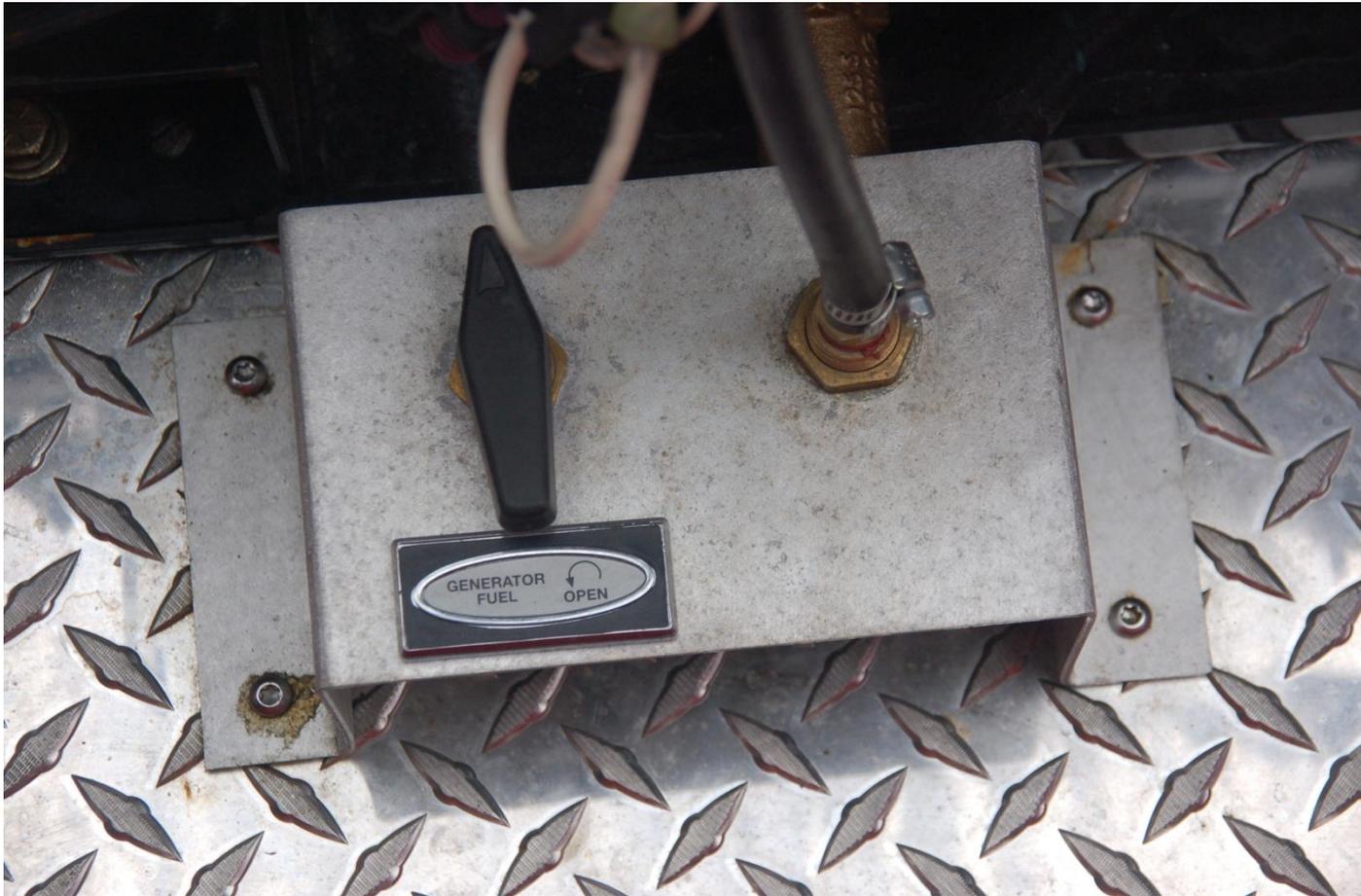
Generator



Located on the top of the vehicle under the
Aerial Ladder.



Fuel control for the generator



Oil Dipstick for the generator



Coolant Reservoir for the generator



Breaker Panel

